

Python



Digital Lync

ACADEMY

INNOVATION - EDUCATION - INCUBATION

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PYTHON



Introduction

Motivation & Applicability to various domains

Installation & Setting up path

Interactive shells & IDE's

Keywords and Identifiers

Lists

Introduction

Accessing List

Operations

List Comprehension

Function and Methods

Variables and Data Types

Numbers

Operators

Reading data from keyboard

String Manipulation

Accessing Strings

Basic Operations

String slices

Tuple

Introduction

Accessing Tuples

Operations

Working & Tuple Comprehension

Functions and Methods

Conditional Statements

If - else

If-elif- else

Nested if-else

Dictionaries

Introduction

Accessing values in Dictionaries

Working with Dictionaries

Properties

Functions and Methods

Control flow

For

While

Nested loops

Break

Continue

Pass

Sets

Introduction

Accessing values in Sets

Working with Sets

Properties

Functions and Methods

Functions

- Defining a function
- Calling a function
- Types of functions
- Function Arguments
- Anonymous functions
- Global and local variables
- Decorators

Modules

- Importing module
- Math module
- Random module
- Packages

Input and Output

- Output formatting
- Files operations
- Files Functions

OOPs concept

- Class and objects
- types Methods
- Attributes
- Inheritance
- Polymorphism
- Data hiding (Abstraction)
- Encapsulation

Exception Handling

- Except clause
- Try & finally clause
- User Defined Exceptions

Database Programming

- Introduction
- Connections
- Working with queries

Dev Tools

- Intro to Git basics
- Virtual Environments
- Managing Packages with pip

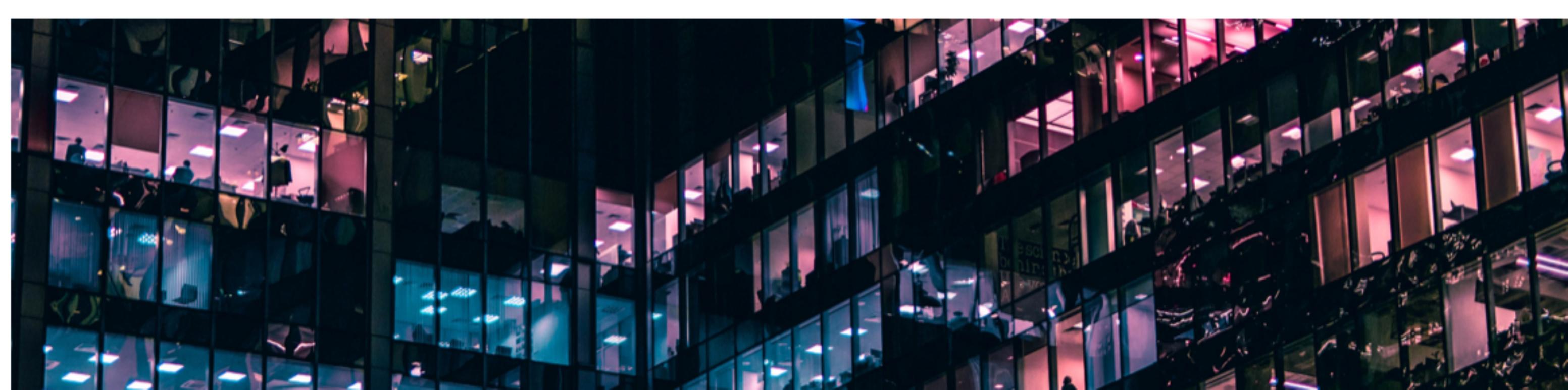
Regular expressions

- Need & Necessity of RE
- Patterns
- Matching & Searching
- Grouping Operations
- Modifiers

Multithreading

- Thread
- Starting a thread
- Threading module
- Synchronising threads
- Multithreaded Priority Queue

POC and Project Guidance



**"WHERE INNOVATION
MEETS TECHNOLOGY"**



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